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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/608,204	06/27/2003	Roberto J. Bayardo JR.	END920030039	7637
23550	7590	03/28/2008	EXAMINER	
Hoffman Warnick & D'Alessandro, LLC			FRANCIS, MARK P	
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ALBANY, NY 12207			2193	
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			03/28/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTOCommunications@hwdpatents.com

Office Action Summary	Application No.	Applicant(s)	
	10/608,204	BAYARDO ET AL.	
	Examiner	Art Unit	
	MARK P. FRANCIS	2193	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 18 January 2008.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 10-12, 14-17, 19, 23, 24, 32, 33, 36 and 37 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 10-12, 14-17, 19, 23, 24, 32, 33, 36 and 37 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ . |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____. | 6) <input type="checkbox"/> Other: _____ . |

DETAILED ACTION

1. This action is responsive to the communication filed on January 18, 2008.
2. The finality of the Office Action dated November 20, 2007 has been withdrawn.
3. The previously indicated objection to the dependent claims 35 and 39 in the office action mailed on November 20, 2007 as being allowable subject matter if rewritten in independent form including the limitations of the base claims has been changed to indicate a rejection.
4. Claims 10-12, 14-17, 19, 23-24, 32-33, and 36-37 have been examined.

Claim Rejections - 35 USC § 101

5. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

6. Claims 10-14, 23, and 32-33 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Regarding claims 10, 23, and 32, Applicant defines a system for sharing source code over a network, comprising: a code pattern classifier for analyzing source code generated on a sharing node in the network to identify a set of code patterns, assigning a category to the source code based on the identified set of code patterns and a source

code indexer for selectively indexing the source code, dependent code type, and an associated code type. Applicant has defined the systems and their components as merely software and therefore non-statutory as not fitting a statutory category of invention. The systems would have to include a physical component or be stored on a storage medium to be statutory.

The rejection of the base claim are incorporated into their dependent claims.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 10-12, 14-17, and 19, are rejected under 35 U.S.C. 103(a) as being obvious over Verbeke (U.S. Pub 2004/0098447) in view of Greenfield (U.S. Pat 4931928) and further in view of Kataoka. (U.S. Pat 5,862,382).

With respect to claims 10 and 15, Verbeke discloses a system for sharing source code over a network, comprising: a code pattern classifier for analyzing source code generated on a sharing node in the network to identify a set of code patterns,(Col

15:0180-0181, "...that share a common set of interests...and access any computer content(code, data, applications,...")

and for assigning at least one predetermined category to the source code based on the identified set of code patterns, wherein code pattern information that is based on the analysis and assignment is stored in a directory;(Col 17:0188-1089, "...indexing, directory...")

but does not disclose and a source code indexer for selectively indexing the source code, a dependent code type, and an associated code type, wherein the source code indexer comprises:

a programming language recognizer for recognizing at least one programming language of the source code;

a selective code content indexer for indexing relevant portions of the source code based on the at least one programming language;

Greenfield discloses a source code indexer for selectively indexing the source code, a dependent code type, and an associated code type,(Col 4:58-67, "...include a lexical scanner that separates the source code file into tokens appropriate to the target programming language...") wherein the source code indexer comprises:

a programming language recognizer for recognizing at least one programming language of the source code;(Col 4:60-67, "...parser for determining valid syntactic structure according to the target programming language...")

a selective code content indexer for indexing relevant portions of the source code based on the at least one programming language;(Col 4:63-67, "...the parser calls a semantics analyzer which extracts the programming semantics constructs of interest...") in an analogous system for the purpose of extracting programming semantics information during computer source code analysis.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to selectively index source code according to the programming language and code content of the source code shared over the network.

The modification would have been obvious because one of ordinary skill in the art would have been motivated to extract programming semantics information during computer source code analysis.

Neither Verbeke nor Greenfield disclose a dependency graph indexer for recognizing and indexing a graph of source code dependencies corresponding to the source code; a code type hierarchy recognizer for recognizing a code type hierarchy associated with the source code; and an associated code type indexer for indexing a set of code types from the code type hierarchy that is associated with the source code.

Kataoka discloses a dependency graph indexer for recognizing and indexing a graph of source code dependencies corresponding to the source code;(Col 5:59-67, "...the relation extracting means extracts relation information...")

a code type hierarchy recognizer for recognizing a code type hierarchy associated with the source code;(Col 6:17-33, "...structure r1 in which relation Ids for each position are stored...") and

an associated code type indexer for indexing a set of code types from the code type hierarchy that is associated with the source code.(Col 6:17-33 "... a group ID which is a key indicating a group of data associated with each relation in the position...") in an analogous system for the purpose of indexing source code dependencies and hierarchies according the programming language amongst the shared source code.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to selectively index source code dependencies and hierarchies of the source code shared over the network.

The modification would have been obvious because one of ordinary skill in the art would have been motivated to index additional source code information for analysis.

With respect to claims 11 and 16, the rejection of claims 10 and 15 are incorporated respectively and further, Verbeke discloses further comprising notifying a set of other

nodes in the network of the availability of the source code. (Col 16:0181-0183, "...peer management functions including access control,...")

With respect to claims 12 and 17, the rejection of claims 10 and 15 are incorporated respectively and further, Verbeke discloses that the code pattern information comprises the set of code patterns, the at least one category and an identity of the sharing node. .(Col 15:0180-0181, "...that share a common set of interests...and access any computer content(code, data, applications,...")

With respect to claims 14 and 19, the rejection of claims 10 and 15 are incorporated respectively and further, Verbeke discloses that the accessing step comprises: analyzing working code on the receiving node to identify a context of the working code, and assigning at least one predetermined category to the working code based on the identified context; (Col 17:0188-1089, "...indexing, directory...") querying the directory to determine a location of the source code; (Col 52:0642-0645, "...query handler...") and retrieving the source code from the sharing node using the determined location. (Col 17:0189, "...file sharing,...")

9. Claims 23 and 24, are rejected under 35 U.S.C. 103(a) as being obvious over Greenfield (U.S. Pat 4931928) in view of Kataoka. (U.S. Pat 5,862,382).

With respect to claims 23 and 24, Greenfield discloses a system for selectively indexing source code for sharing over a network comprising: a programming language recognizer for recognizing at least one programming language of the source code;(Col 4:60-67, "...parser for determining valid syntactic structure according to the target programming language...")

a selective code content indexer for indexing relevant portions of the source code based on the at least one programming language;(Col 4:63-67, "...the parser calls a semantics analyzer which extracts the programming semantics constructs of interest...") but does not disclose a dependency graph indexer for recognizing and indexing a graph of source code dependencies corresponding to the source code;

a code type hierarchy recognizer for recognizing a code type hierarchy associated with the source code; and

an associated code type indexer for indexing a set of code types from the code type hierarchy that is associated with the source code.

Kataoka discloses a dependency graph indexer for recognizing and indexing a graph of source code dependencies corresponding to the source code;(Col 5:59-67, "...the relation extracting means extracts relation information...")

a code type hierarchy recognizer for recognizing a code type hierarchy associated with the source code;(Col 6:17-33, "...structure r1 in which relation Ids for each position are stored...") and

an associated code type indexer for indexing a set of code types from the code type hierarchy that is associated with the source code.(Col 6:17-33 "... a group ID which is a key indicating a group of data associated with each relation in the position...") in an analogous system for the purpose of indexing source code dependencies and hierarchies according the programming language amongst the shared source code.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to selectively index source code dependencies and hierarchies of the source code shared over the network.

The modification would have been obvious because one of ordinary skill in the art would have been motivated to index additional source code information for analysis.

10. Claims 32-33 and 36-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Verbeke. (U.S. Pub 2004/0098447) in view of Ekkel. (U.S. PGPUB 2003/0088571) further in view of Greenfield (U.S. Pat 4,931,928) and further in view of Kataoka. (U.S. Pat 5,862,382)

With respect to claims 32 and 36, Verbeke discloses a system for accessing source code shared over a network, (e.g. See Figs. 2A-2D and related text) comprising: a context classifier for analyzing working code on the receiving node to identify a context of the working code, and for assigning at least one predetermined category to the working code based on the identified context; (Col 17:0188-1089, "...indexing, directory...")

a query generator for querying a directory using the at least one predetermined category assigned to the working code to identify at least one predetermined category assigned to source code that is relevant to the working code; (Col 52:0642-0645, "...query handler...")

a code pattern requestor for retrieving the source code from a sharing node in the network to the receiving node based on the at least one predetermined category assigned to the source code,(Col 15:0180-0181, "...that share a common set of interests...and access any computer content(code, data, applications,...")

a code pattern classifier for analyzing the source code on the sharing node to identify a set of code patterns, (Col 15:0180-0181, "...that share a common set of interests...and access any computer content(code, data, applications,...")

and for assigning the at least one predetermined category to the source code based on the identified set of code patterns, wherein code pattern information that is based on the analysis and assignment is stored in the directory; (Col 17:0188-1089, "...indexing, directory...")

but does not disclose the code pattern requestor querying a search engine corresponding to the sharing node to retrieve the source code.

Ekkel discloses the code pattern requestor querying a search engine corresponding to the sharing node to retrieve the source code.(Col 1:0010, "...peer-to-peer software applications...") in an analogous system for the purpose of providing a system for securable access to a collection of data across a peer-to-peer data network.(Col 1:0014)

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to include the code pattern requestor querying a search engine corresponding to the sharing node to retrieve the source code to Verbeke's invention.

The modification would have been obvious because one of ordinary skill in the art would have been motivated to provide a system for securable access to a collection of data across a peer-to-peer data network.(Col 1:0014)

Neither Verbeke nor Ekkel disclose a source code indexer for selectively indexing the source code, a dependent code type, and an associated code type, wherein the source code indexer comprises:

a programming language recognizer for recognizing at least one programming language of the source code; a selective code content indexer for indexing relevant portions of the source code based on the at least one programming language;

Greenfield discloses a source code indexer for selectively indexing the source code, a dependent code type, and an associated code type,(Col 4:58-67, "...include a lexical scanner that separates the source code file into tokens appropriate to the target programming language...") wherein the source code indexer comprises:

a programming language recognizer for recognizing at least one programming language of the source code;(Col 4:60-67, "...parser for determining valid syntactic structure according to the target programming language...")

a selective code content indexer for indexing relevant portions of the source code based on the at least one programming language;(Col 4:63-67, "...the parser calls a semantics analyzer which extracts the programming semantics constructs of interest...") in an analogous system for the purpose of extracting programming semantics information during computer source code analysis.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to selectively index source code according to the programming language and code content of the source code shared over the network.

The modification would have been obvious because one of ordinary skill in the art would have been motivated to extract programming semantics information during computer source code analysis.

Neither Verbeke nor Ekkel nor Greenfield disclose a dependency graph indexer for recognizing and indexing a graph of source code dependencies corresponding to the source code; a code type hierarchy recognizer for recognizing a code type hierarchy associated with the source code; and an associated code type indexer for indexing a set of code types from the code type hierarchy that is associated with the source code.

Kataoka discloses a dependency graph indexer for recognizing and indexing a graph of source code dependencies corresponding to the source code;(Col 5:59-67, "...the relation extracting means extracts relation information...") a code type hierarchy recognizer for recognizing a code type hierarchy associated with the source code;(Col 6:17-33, "...structure r1 in which relation Ids for each position are stored...") and an associated code type indexer for indexing a set of code types from the code type hierarchy that is associated with the source code.(Col 6:17-33 "... a group ID which is a key indicating a group of data associated with each relation in the position...") in an

analogous system for the purpose of indexing source code dependencies and hierarchies according the programming language amongst the shared source code.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to selectively index additional information, ie. source code dependencies and hierarchies of the source code shared over the network.

The modification would have been obvious because one of ordinary skill in the art would have been motivated to index the additional information.

With respect to claims 33 and 37, the rejection of claims 32 and 36 are incorporated respectively and further, Verbeke discloses further comprising a category selector for receiving a response to the query from the directory, (Col 52:0642-0645, "...query handler...") wherein the response includes the at least one predetermined category assigned to the source code, and for selecting the at least one predetermined category assigned to the source code. (Col 17:0188-1089, "...indexing, directory...")

Response to Arguments

11. Applicant's arguments filed January 18, 2008 have been fully considered but they are moot in view of the new grounds of rejection.

Conclusion

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARK P. FRANCIS whose telephone number is (571)272-7956. The examiner can normally be reached on Mon-Fri 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lewis Bullock can be reached on (571)272-3759. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Mark P. Francis

Patent Examiner

Art Unit 2193

/Lewis A. Bullock, Jr./

Supervisory Patent Examiner, Art Unit 2193